

Appl. No. 09/869,003
Amdt. dated June 23, 2003
Reply to Office Action of January 22, 2003

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1. (amended herein) An antigenic peptide of less than 100 amino acids having an antigenic subsequence selected from the group consisting of X-KSSGKLISL-X (SEQ ID NOS: 1 and 31), ~~X-CNGRLYCGP-X (SEQ ID NOS: 2 and 32)~~, ~~X-GTKLVCFAA-X (SEQ ID NOS: 3 and 33)~~, ~~EATVVVYPAP (SEQ ID NO: 7)~~, ~~TKTLIYGGAA (SEQ ID NO: 8)~~, ~~KRIVIGPQT (SEQ ID NO: 9)~~, ~~CCGCLTCSV (SEQ ID NO: 10)~~, ~~SGRLYCHESW (SEQ ID NO: 11)~~, ~~FALSHYDKP (SEQ ID NO: 12)~~, ~~RPTLRFQGA (SEQ ID NO: 13)~~, ~~EGEFCKSSGKLISLCGDPACK (SEQ ID NO: 14)~~, ~~EGEFCQTKLVCFAAAGDPAK (SEQ ID NO: 15)~~, ~~EGEFCCNGRLYCQPCGDPACK (SEQ ID NO: 16)~~, ~~EGEFCCAGQLTCSVCGDPACK (SEQ ID NO: 17)~~, ~~CSGRLYCHESWC (SEQ ID NO: 18)~~, and ~~TKTLIYQGA (SEQ ID NO: 19)~~, wherein X is independently an amino acid or sequence of amino acids with the proviso that X is not identical to the amino acid or amino acids naturally flanking the subsequences in human immunodeficiency virus-1 (HIV-1).

2. (amended herein) An antigenic peptide of claim 1, wherein the antigenic subsequence is selected from the group consisting of X-KSSGKLISL-X (SEQ ID NOS: 1 and 31), and wherein X is independently an amino acid that is not identical to the amino acid naturally flanking the subsequence in HIV-1 ~~X-CNGRLYCGP-X (SEQ ID NOS: 2 and 32)~~, and ~~X-GTKLVCFAA-X (SEQ ID NOS: 3 and 33)~~.

3. withdrawn

4. withdrawn

5. (amended herein) An antigenic peptide of claim 1, wherein the antigenic subsequence is selected from the group consisting of EGEFCKSSGKLISLCGDPACK (SEQ ID

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NO: 14), ~~EGEFCQTKLVCFAAAGDPAK (SEQ ID NO: 15)~~, and
~~EGEFCCNGRLYQPCGDPACK (SEQ ID NO: 16)~~.

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6. (amended herein) A vaccine for protecting against HIV-1 infection comprising an antigenic peptide of less than 100 amino acids having an antigenic subsequence selected from the group consisting of X-KSSGKLISL-X (SEQ ID NOS: 1 and 31), ~~X-CNGRLYCGP-X (SEQ ID NOS: 2 and 32)~~, ~~X-GTKLVCFAA-X (SEQ ID NOS: 3 and 33)~~, ~~EATVVYPAP (SEQ ID NO: 7)~~, ~~TKTLIYGGA (SEQ ID NO: 8)~~, ~~KRIVIGPQT (SEQ ID NO: 9)~~, ~~CCGCLTCV (SEQ ID NO: 10)~~, ~~SGRLYCHESW (SEQ ID NO: 11)~~, ~~FALSHYDKP (SEQ ID NO: 12)~~, ~~RPTLRFQGA (SEQ ID NO: 13)~~, ~~EGEFCKSSGKLISLCGDPACK (SEQ ID NO: 14)~~, ~~EGEFCQTKLVCFAAAGDPAK (SEQ ID NO: 15)~~, ~~EGEFCCNGRLYQPCGDPACK (SEQ ID NO: 16)~~, ~~EGEFCCAGQLTCVCGDPACK (SEQ ID NO: 17)~~, ~~CSGRLYCHESWC (SEQ ID NO: 18)~~, and ~~TKTLIYQGA (SEQ ID NO: 19)~~ wherein X is independently an amino acid or sequence of amino acids with the proviso that X is not identical to the amino acid or amino acids naturally flanking the subsequences in HIV-1.

7. (amended herein) A vaccine of claim 6, wherein the antigenic subsequence is selected from the group consisting of X-KSSGKLISL-X (SEQ ID NOS: 1 and 31), ~~X-CNGRLYCGP-X (SEQ ID NO: 2 and 32)~~, and ~~X-GTKLVCFAA-X (SEQ ID NOS: 3 and 33)~~ and wherein X is independently an amino acid that is not identical to the amino acid naturally flanking the subsequence in HIV-1.

8. (withdrawn)

9. (amended herein) A vaccine of claim 6, wherein the antigenic subsequence is selected from the group consisting of ~~EGEFCKSSGKLISLCGDPACK (SEQ ID NO: 14)~~, ~~EGEFCQTKLVCFAAAGDPAK (SEQ ID NO: 15)~~, and ~~EGEFCCNGRLYQPCGDPACK (SEQ ID NO: 16)~~.

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10. A peptide of claim 1, wherein the antigenic subsequence comprises an antigenic determinant that does not give rise to HIV-1-specific antibodies to more than twelve other antigenic determinants on HIV-1.

Claims 11-23 (withdrawn)
